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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,017	10/29/2003	Leland Swanson	TI-36333	7074
23494	7590 08/26/2004		EXAMINER	
TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999			CLARK, JASM	INE JHIHAN B
	DALLAS, TX 75265		ART UNIT	PAPER NUMBER
, ,			2815	

DATE MAILED: 08/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/696,017	SWANSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jasmine J Clark	2815				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	rely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
2a) ☐ This action is FINAL . 2b) ☑ This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-9</u> is/are allowed.						
6)⊠ Claim(s) <u>10 and 15</u> is/are rejected.	3)⊠ Claim(s) <u>10 and 15</u> is/are rejected.					
7) Claim(s) <u>11-14 and 16-20</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers	,					
9)☐ The specification is objected to by the Examine						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau 	s have been received. s have been received in Applicati ity documents have been receive	on No				
* See the attached detailed Office action for a list	, , , , , , , , , , , , , , , , , , , ,	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 10 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Downes (US 6,222,277 B1).

Downes teaches a semiconductor device, comprising (see Fig. 5) a semiconductor die 10 (see column 5, line 4) having a first plurality of electrical contacts 44; a first plurality of conductive bumps 40 wherein at least one bump in the first plurality is conductively connected to at least one of the first plurality of electrical contacts 44; a second plurality of conductive bumps 42, wherein at least one bump in the second plurality is conductively connected to at least one of the second plurality of electrical contacts 44; and wherein each of the bumps 40 in the first plurality of conductive bumps is larger than each of the bumps 42 in the second plurality of conductive bumps.

Concerning claim 15, a method of making a semiconductor circuit, comprising: providing a semiconductor die 10 comprising a first plurality of electrical contacts and a second plurality of electrical contacts 44; conductively connecting to the die 10 a first plurality of conductive bumps 40 wherein at least one bump in the first plurality of conductively connected to at least one of the first plurality of electrical contacts; conductively connecting to the first die a second plurality of conductive bumps, wherein

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at least one bumps in the bump in the second plurality is conductively connected to at least one of the second plurality of electrical contacts; and wherein each of the bumps 40 in the first plurality of conductive bumps is larger than each of the bumps 42 in the second plurality of conductive bumps.

Allowable Subject Matter

2. Claims 11-14, and 16-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The applied reference fails to teach and/or suggest the limitations as set forth in claims 11-14 and 16-20.

3. Claims 1-9 are allowed.

The following is an examiner's statement of reasons for allowance: the applied reference doesn't teach having a conductive path as claimed in claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

References Cited

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4. Please structures shown by Ference et al. (US 6,225,699 B1) and Kelly et al. (US 5,798,567).

Telephone Inquiry Contacts

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jasmine J Clark whose telephone number is (571) 272-1726. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jjbc/08/19/04

JASMINE CLARK PRIMARY EXAMINER

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